



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 51] नई विल्सो, शनिवार, दिसम्बर 22, 1979 (पौष 1, 1901)  
 No. 51] NEW DELHI, SATURDAY, DECEMBER 22, 1979 (PAUSA 1, 1901)

इस भाग में भिन्न पृष्ठ संस्था दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

#### PART III—SECTION 2

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

Notifications and Notices issued by the Patent Office relating to Patents and Designs

#### THE PATENTS OFFICE

#### PATENTS AND DESIGNS

Calcutta, the 22nd December 1979

#### CORRIGENDA

(1)

In the Gazette of India Part III, Section 2, dated 18th August 1979 in page 497, column 2 under the heading "PATENTS SEALED" delete number 145280.

(2)

In the Gazette of India Part III, Section 2, dated the 1st September 1979 in page 528, column 1 under the heading "PATENTS SEALED" delete number 143669.

(3)

In the Gazette of India Part III, Section 2, dated the 15th September 1979 in page 549, column 2 under the heading "PATENTS SEALED" delete number 145552.

(4)

In the Gazette of India Part III, Section 2, dated the 22nd September 1979 in page 565, column 2 under the heading "PATENTS SEALED" delete number 145936.

(5)

In the Gazette of India Part III, Section 2, dated the 20th October 1979 in page 565, column 2 under the heading "PATENTS SEALED" delete number 145995.

#### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

15th November, 1979

1187/Cal/79. Giuseppe Giammarco and Paolo Giammarco. Improved solutions for the absorption of CO<sub>2</sub> and/or H<sub>2</sub>S.

1188/Cal/79. R. Peddinghaus. Metal disc saw.

1189/Cal/79. Veb Kombinat Textima. Flat-bed combing machine.

16th November, 1979

1190/Cal/79. Aktiengesellschaft Kuhnle, Kopp & Kausch. Feed of the exhaust gases from an internal combustion engine to the rotor of a centrifugal turbine of an exhaust gas turbocharger.

1191/Cal/79. Heinrich Kopp GMBH & Co. KG. Electrical full protective circuit breaker.

17th November, 1979

1192/Cal/79. Lucas Industries Limited. Fuel injection nozzles. (November 17, 1980).

1193/Cal/79. Union Carbide Corporation. Preparation of low density ethylene copolymers in fluid bed reactor.

1194/Cal/79. American Cyanamid Co. Insecticidal and acaricidal agents. [Divisional date November 28, 1977].

1195/Cal/79. K. Rajagoralan. Improvements in or relating to heat exchangers.

19th November, 1979

1196/Cal/79. Lucas Industries Limited. Fuel system for an internal combustion engine. (February 8, 1979).

1197/Cal/79. Lucas Industries Limited. Fuel system for an internal combustion engine. (February 9, 1979).

1198/Cal/79. Lucas Industries Limited. Electromagnetic devices. (February 9, 1979).

1199/Cal/79. Lucas Industries Limited. Fuel injection pumping apparatus. (April 3, 1979).

1200/Cal/79. Lucas Industries Limited. Fuel injection pumping apparatus. (April 7, 1979).

1201/Cal/79. Lucas Industries Limited. Fuel injection systems. (April 21, 1979).

1202/Cal/79. Lucas Industries Limited. Fuel injection systems. (May 12, 1979).

1203/Cal/79. Lucas Industries Limited. Fuel injection systems. (May 11, 1979).

1204/Cal/79. Lucas Industries Limited. Fuel injection systems. (July 20, 1979).

1205/Cal/79. TRW Inc. Resistor material, resistor made therefrom and method of making the same.

1206/Cal/79. TRW Inc. Resistor material, resistor made therefrom and method of making the same.

1207/Cal/79. M. Borcoman. Rotary drum plant for the manufacture of concrete, reinforced concrete and/or prestressed concrete products.

1208/Cal/79. Combustion Engineering, Inc. Once through sliding pressure steam generator.

1209/Cal/79. Voest-Alpine Aktiengesellschaft. Compensation weight for a one-side hauling plant.

20th November, 1979

1210/Cal/79. Pilkington Brothers Limited. Apparatus for chopping fibres. (November 20, 1978).

1211/Cal/79. Euteco Impianti S.p.A. Supported catalyst for the polymerization of olefins.

1212/Cal/79. Societa' Italiana Resine S.I.R. S.p.A. Film-forming resin for use in anti-corrosive and can-coating compositions.

1213/Cal/79. The B. F. Goodrich Company. Process for preparing polymers of unsaturated carboxylic acid monomers.

1214/Cal/79. Saint-Gobain Industries. Method and apparatus for control of fiberization of thermoplastic material.

1215/Cal/79. Combustion Engineering, Inc. Pneumatic ash transporting and containing system.

1216/Cal/79. Nauchno-Issledovatel'sky Institut Vodnykh Problem and Nauchno-Issledovatel'sky Institut Komunal'nogo Vodosnabzheniya I Ochistki Vody Akademii Komunal'nogo Khozyaistva Imeni K.D. Pamfilova. Floating apparatus for clarification of water.

21st November, 1979

1217/Cal/79. Midland-Ross Corporation. Composite cushion pad.

1218/Cal/79. D. M. Britz. Posture chair. (November 21, 1978).

1219/Cal/79. BASF Aktiengesellschaft. Novel carboxylic acid esters for pest control.

1220/Cal/79. Kanesho Company Limited. A herbicidal composition for paddy fields.

## APPLICATIONS FOR PATENTS FIELD AT THE (DELHI BRANCH)

23rd October, 1979

731/DLL/79. Ehsan Ullah Siddiqui, "An Improved Electric Appliance".

732/DEL/79. Karl Siegfried Springborn, "Process and apparatus for the manufacture of sintered tungsten carbide tool tips".

733/DEL/79. Wolfdieter Richter, "Improvements Relating to Supplying Paint".

734/DEL/79. The General Electric Company Limited, "Equipment Housings". (November 6, 1978).

735/DEL/79. Metallurgical Process Limited, "Condensation of Metal Vapour". (November 24, 1978).

24th October, 1979

736/DEL/79. Bharat Heavy Electricals Ltd., "Pulsed Welder Module".

737/DEL/79. Bharat Heavy Electricals Ltd., "Development of Submerged Arc Welding Flux for High Speed Application".

738/DEL/79. Bharat Heavy Electricals Ltd., "Development of Vacuum Packing System".

739/DEL/79. Miles Laboratories, INC., "Composition, Test Device and Method for Determining the Ionic Strength or Specific Gravity of a Liquid Sample".

740/DEL/79. Union Carbide Corporation, "Improved Ultra-filtration and Reverse Osmosis Device".

741/DEL/79. Marc Alfred Chavanners, "Method and Apparatus for Making Reinforced Laminated and Corrugated Materials".

742/DEL/79. Imperial Chemical Industries Limited, "Esters of 1, 1, 2-Triphenylalkene Derivatives". (November 7, 1978).

743/DEL/79. Ernst Wanschura, "Internal Combustion Engine Supplied with Water in Order to Save Fuel".

25th October, 1979

744/DEL/79. Le Materiel Telephonique Thomson-CSF, "A Buffer Memory System".

745/DEL/79. Ferodo Limited, "Improvements in or Relating to Friction Materials". (November 4, 1978).

746/DEL/79. Ferodo Limited, "Process for the Treatment of Glass Yarn". (November 4, 1978).

747/DEL/79. UOP INC., "A Seat Having a Movable Lumbar Support". (November 18, 1978).

27th October, 1979

748/DEL/79. The Director, All India Institute of Medical Science, "A Device for Measuring the Temperature Sensation of the Skin of a Patient".

749/DEL/79. The Director, All India Institute of Medical Science, "A Device for Determining the Touch the Touch Sensation of the Skin of a Patient".

750/DEL/79. The Director, All India Institute of Medical Science, "A Device for Determining the Pain Sensation of the Skin of a Patient".

751/DEL/79. The Director General, Cement Research Institute of India, "A Drive System for use with Said Rotary Grate".

752/DEL/79. Purolator India Limited, "Separators for use in Batteries".

753/DEL/79. Les Innovations Real Lemaire Inc., "Transparent Container for Holding a Predetermined Quantity of Coins".

754/DEL/79. Card-O-Matic Pty. Limited., "Electrical Equipment and its Fabrication".

755/DEL/79. Council Scientific & Industrial Research, "Hydraulically Operated Coil Expanding & Spreading Machine".

APPLICATIONS FOR PATENTS FILED AT THE  
(BOMBAY BRANCH)

3-11-1979

304/BOM/79. M/s. Ahmedabad Manufacturing and Calico Printing Company Limited, Wicking print effect on Polyester fabric.

305/BOM/79. Puruthiazhath Perumal Mohanana, Vibrating Bed.

5-11-1979

306/BOM/79. Sudhir S. Budhay, Winnoer.

307/BOM/79. Madhusudan, Evaporative water Cooler.

6-11-1979

308/BOM/79. Sundar Lal Baga, A method and equipment for manufacturing man-made solid fuels for domestic and/or industrial heating Applications.

7-11-1979

309/BOM/79. P. R. Mallory & Co. INC., Non-aqueous electro-chemicals cells containing novel electrolyte salts.

310/BOM/79. Vyankatesh Balwant Pandit, Hand Cart Device.

8-11-1979

311/BOM/79. Surendra Kumar Jain, Play and Learn Arithmetics apparatus.

312/BOM/79. Hindustan Lever Limited, Preparation of Sulphonated Esters.

9-11-1979

313/BOM/79. M/s Ahmedabad Manufacturing and Calico Printing Company Limited, Improvement in disperse colour prints on polyester fabric.

314/BOM/79. Mrs. Manjusha Arun Mungi, Improvements in Emergency Light.

12-11-1979

315/BOM/79. Rajvirsingh Bhupendrasingh Jadeja, "Plot-4" The Vertical Strategy Game.

14-11-1979

316/BOM/79. Satish Balwant Bapat, Improved Monkey spanner.

317/BOM/79. Satish Balwant Bapat, Improvement in or relating to artificial Baby feeding.

318/BOM/79. Satish Balwant Bapat, Improved funnel.

319/BOM/79. Suryakant Malichand Sheth, Improvements in or relating to Bobbin Holder.

15-11-1979

320/BOM/79. P. R. Mallory & Co. Inc. Electro Chemical cells having zinc anodes and containing hydrogen evolution inhibitors.

321/BOM/79. P. R. Mallory & Co. Inc. An electro chemical cells containing Fluid Depolarizers.

APPLICATION FOR PATENTS FILED AT THE  
(MADRAS BRANCH)

15th November, 1979

204/Mas/79. P. V. George. Solid State Flushing Cisterns.

205/Mas/79. C. S. N. Ahmed. Electronics Applied to Automobiles. A set of Bearings to last for above 25 years.

17th November, 1979

206/Mas/79. Lucas Industries Ltd. Servo Boosters for Vehicle Braking Systems. (November 21, 1978).

ALTERATION OF DATE

147214. } Ante-dated 19th November, 1975.

1766/Cal/77. }

147218. } Ante-dated 29th August, 1977.

1359/Cal/78. }

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 46A & B & C.

147201.

Int. Cl.-G07f 11/00, G07t 11/62.

A DISPENSING OR VENDING MACHINE.

*Applicant & Inventor : MRS. KANTA KHANNA, 7, JOR-BAGH, NEW DELHI-110003, INDIA.*

Application No. 1380/Cal/79 filed August 3, 1976.

Complete Specification left October 25, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

15 Claims.

A dispensing or vending machine adapted to be electrically or mechanically operated having a cabinet within which is disposed the actuating means for operating the machine, said machine comprising a slot on the cabinet for receiving a coin, said slot communicating with a channel and such that the coin is adapted to traverse vertically along a downward fall within said channel, means provided within said channel and adapted to be actuated by said coin, a first member, which is slidable which in a first position is in an inoperative status communicating with a storage means for said dispensing or vending articles, a second member being a fixed plate having

an opening for discharge of said articles when said slidable member is in a second position, further means provided and adapted to be actuated by said means to actuate the slidable member from a first to a second position, and restoring means being provided with said slidable member for traverse of said slidable member from the second position to the said first or inoperative position.

Prov. Specn. 7 Pages. Comp. Specn. 19 Pages. Drg. 3 Sheets.

CLASS 98-I. 147202.

Int. Cl.-F24j 3/02, H01M/00.

SOLAR CELLS AND METHOD OF PRODUCING SAME.

*Applicant* : MOBIL TYCO SOLAR ENERGY CORPORATION, AT 16 HICKORY DRIVE, WALTHAM, MASSACHUSETTS, USA.

*Inventors* : LYNNE CARYN GARON AND K. V. RAVI. Application No. 77/Cal/77 filed January 19, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A solar cell unit comprising in combination a hollow substantially monocrystalline semiconductor body in the form of a substantially flat oval tube having first and second opposed and mutually spaced relatively large side wall sections connected together by a pair of opposed relatively small side edge sections, said tube having a radiation-receiving outer surface and a photo-voltaic junction which is at or near said outer surface and is capable of responding to radiant energy passing through said outer surface, and at least first, second and third electrodes for coupling said unit to an external circuit, said first and third electrodes being carried on said radiation-receiving outer surface along said first and second side wall sections and said second electrode being carried by an inner surface of said body.

Comp. Specn. 21 Pages. Drg. 1 Sheet.

CLASS 134B. 147203

Int. Cl.-F16h 33/02.

A MECHANICAL TRANSMISSION DEVICE.

*Applicant* : THE ENGLISH CARD CLOTHING COMPANY LIMITED, OF ACRE STREET, LINDLEY, HUDDERSFIELD, WEST YORKSHIRE, ENGLAND.

*Inventor* : GRAHAM RHODES BOOTH.

Application No. 112/Cal/77 filed January 27, 1977.

Convention date January 28, 1976/(03222/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

A mechanical transmission device comprising a driving member and a driven member with a transmission element operative between them, the said transmission element comprising a multiplicity of filament struts inclined relatively to the direction of movement between the driving and driven members, the struts being held together by a flexible foundation which engages with either the driving or driven member and projecting from it and the "free" ends of the struts bearing against a surface of the other of the driving and driven members.

Comp. Specn. 27 Pages Drg. 7 Sheets.

CLASS 127G. 147204

Int. Cl.-F16h 9/00.

IMPROVEMENTS IN AND RELATING TO MULTI-SPEED PLANET GEARS FOR VEHICLES.

*Applicant* : S. R. M. HYDROMEKANIK AB, OF BOX 16, VALLINGBY 1, SWEDEN.

*Inventor* : KARL GUSTAV AHLEN.

Application No. 129/Cal/77 filed January 29, 1977.

Convention date January 29, 1976/(03572/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A multi-speed planet gear for vehicles including a casing and one planet gear carrier having two planet gears which mesh with inner and/or outer central gears characterised in that the gear comprises at least three central gears of which one constitutes the primary gear part whereas the secondary part is constituted by the planet gear carrier, a servo-motor operated friction brake associated with each of the remaining central gears for connecting the remaining central gears for connecting the remaining central gears against rotation with the casing, a friction clutch for introducing direct drive and disposed in the transmission line between the primary gear and the planet gear carrier, and a non-rotatable servo motor for controlling engagement and disengagement of the friction clutch.

Comp. Specn. 39 Pages. Drg. 14 Sheets.

CLASS 95-I. 147205

Int. Cl.-B25b 7/00.

CUTTING PLIERS.

*Applicant* : LEGRAND S.A., OF 128 AVENUE DUE MARECHAL DE LATTRE DE TASSIGNY, LIMOGES, (HAUTE VIENNE), FRANCE.

*Inventor* : MARIO VIOLE.

Application No. 261/Cal/77 filed February 22, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

Cutting pliers for a clamp of the type comprising a fixed supporting plate having transversely at one end an intake opening for the engagement of a clamp and forming at its other end a fixed grip which serves as a support, a displacement member mounted so as to move longitudinally relative to said plate and which is able to grip such a clamp, a movable grip forming a trigger pivotally mounted on the fixed plate with reference to the fixed grip thereof, a coupling linkage having a swinging rod provided between the said displacement member and the said movable grip and having a certain release mechanism controlled by elastic calibrating means and a cutting lever pivotally mounted between a rest position where it leaves free the intake opening of the said plate and a working position and with which are associated restoring means which draw it in the direction of said rest position, whereby said sudden release mechanism comprises on the one hand a cam member having a cam surface with two separate stability zones separated from one another by an instability elbow and on the other hand a follower member maintained in contact with the cam surface of said cam member by associated elastic calibrating means, whereby either of said cam-follower members is movable relative to the other within the limits of the cam surface of either of them, thus being able to swing the cutting lever from its rest position into its working position, said cutting pliers being characterised in that any one of the cam-follower members is fixed to the movable grip forming a trigger whilst the other is formed on the swinging rod of the coupling linkage provided between said movable grip and said displacement member, whereby the elastic calibrating means are coupled to said swinging rod and the latter has engagement means, such as a support surface engaged with complementary engagement means, such as a stud fixed to said cutting lever.

Comp. Specn. 26 Pages. Drg. 3 Sheets.

CLASS 68B. 147206

Int. Cl.-H01b 5/08, 7/00.

FUSIBLE ELECTRICAL CONDUCTORS.

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF MUNICH, WEST GERMANY.

*Inventor* : DR. KLAUS MOLLENHOFF.

Application No. 259/Cal/77 February 22, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A one piece fusible conductor comprising a constriction for carrying current is defined between two adjacent parallel sides of two adjacent recesses in the conductor, the distance

D between sides being between 1.0 and 2.0 mm, a hole in the conductor is located adjacent the construction to define between the hole and said two recesses two equal conductor portions such that the minimum distance E between the periphery of said hole and the periphery of each recess is between 0.7 and 1.0 mm, the ratio E/D lies substantially in the range 0.5 to 0.75, and said hole is normally filled with solder except in the case of an overload.

Compl. Specn. 5 Pages. Drg. 1 Sheet.

CLASS 68B. 147207

Int. Cl. H01b 5/02, 7/00.

#### FUSIBLE ELECTRICAL CONDUCTORS.

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF MUNICH, WEST GERMANY.

*Inventor* : DR. QLAUS MOLLEN HOFF.

Application No. 266/Cal/77 filed February 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

A fusible electrical conductor wherein at least a first constriction for carrying current is defined between two adjacent corners of two adjacent recesses in the conductor, the angles of said corners being less than 70° and the distance D between said corners being less than or equal to 1.0 mm, a circular portion of the conductor made of solder material located adjacent the constriction to define between the said portion and said two recesses two equal conductor portions such that the minimum distance E between the periphery of said portion and the periphery of each recess is less than or equal to 0.5 mm, the ratio E/D lies substantially in the range 0.5 to 2.5.

Comp. Specn. 6 Pages. Drg. 1 Sheet.

CLASS 69D & I & K. 147208  
Int. Cl.-H01h 36/00.

#### IMPROVEMENTS IN OR RELATING TO VACUUM SWITCHES.

*Applicant* : HAZEMFIJER B. V., OF TUINDORSPT-RAAT 61, HENGELLO, THE NETHERLANDS.

*Inventor* : JOSEPH HUBERTUS FRANCISCUS GERARDUS LIPPERTS.

Application No. 308/Cal/77 filed March 2, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

A vacuum switch comprising an evacuated envelope having therein two stationary contact elements having an electrically insulating gap therebetween, and an electromagnetic coil operative to produce a magnetic field in the region of the gap between the contact elements, the magnetic field being substantially parallel to the width of the gap, characterized in that the terminals of the coil are respectively connected to two metal discs separated from each other by means of an electrically insulating disc, an assembly comprising the insulating disc and the two metal discs on either side thereof being mounted within the gap between the two stationary contact elements, in the closed condition of the switch the contact elements being bridged by a third movable U-shaped contact element of the switch.

Comp. Specn. 10 Pages. Drg. 1 Sheet.

CLASS 32F<sub>c</sub>. 147209  
Int. Cl.-C07c 29/24, 39/04.

#### PROCESS FOR THE PURIFICATION OF A PHENOL.

*Applicant* : STAMICARBON B. V., OF GELEEN, THE NETHERLANDS, P.O. BOX 10, GELEEN, THE NETHERLANDS.

*Inventor* : THEODORUS BAIG.

Application No. 371/Dcl/77 filed November 3, 1977.

Convention date September 13, 1977/(38168/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 6 Claims. No drawings

A process for the purification of a phenol obtained by oxidation of an alkyl benzene compound containing an alkyl group with 1 to 8 carbon atoms to form benzene from a benzene monocarboxylic acid or a salt, ester, or anhydride, followed by decarboxylative oxidation of the benzene monocarboxylic acid or the salt, ester or anhydride thereto, characterized in that the phenol is introduced into a column having a temperature gradient along its length, at a relatively hot part of said column, said phenol is contacted in countercurrent flow in said column with a phosphoric acid introduced into the column at a relatively cool part thereof, the different in temperature between said relatively hot part and said relatively cool part being 0.1° to 10°C, and purified phenol is recovered by means of discharge means located in the top portion of said column.

Comp. Specn. 7 Pages. Drgs. Nil.

CLASS 32A<sub>a</sub>. 147210

Int. Cl.-C09b 47/04, C09b 62/00.

#### PROCESS FOR THE PREPARATION OF COPPER PHTHALOCYANINE.

*Applicant* : BAYER AKTIENGESELLSCHAFT, OF 5090 LEVERKUSEN, BAYERWERK, WEST GERMANY.

*Inventor* : DR. REINOLD SCHMITZ AND DR. KLAUS WUNDERLICH

Application No. 395/Del/77 filed November 17, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 4 Claims

Process for the preparation of copper phthalocyanine from phthalic acid or phthalic acid derivatives, urea or urea derivatives, copper salts and optionally a catalyst, characterised in that the components are heated under an inert gas atmosphere from 30 to 270°C in a thin layer with a large surface so that an average rise in temperature of 2°C/minute is not exceeded, and, if desired, the reaction is ended by heating at 220° to 300°C.

Comp. Specn. 9 Pages. Drg. 1 Sheet.

CLASS 116D. 147211

Int. Cl.-B66f 9/00.

#### LIFTING AND LOWERING DEVICE FOR HANDLING GOODS CONTAINERS.

*Applicant* : MODULAR DISTRIBUTION SYSTEMS LIMITED, OF FLETON HOUSE, 79 HIGH STREET, FLETON, PETLBOROUGH, ENGLAND.

*Inventors* : DAVID ALLEN AND ROBER JOHN ROWLEY.

Application No. 759/Cal/77 filed May 20, 1977.

Convention date May 21, 1976/(21146/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims

A lifting and lowering device for attachment to goods containers with ISO castings or the like fittings, which device comprises a post of non-circular section, an extendable leg of corresponding section housed within the post, hydraulic ram means within the post for effecting extension and retraction of the leg, a power pack supplying pressure liquid to the ram means, the power pack being mounted on the post, a sleeve slidable on the outside of the post, retractable locking means to lock the sleeve to the post in a number of positions along the post, first and second twist lock devices on the post and on the sleeve respectively whereby adjustment of the position of the sleeve on the post adjusts the spacing of the first and second twist lock devices, the twist lock devices being offset to one side of the post and ground-engaging support means projecting from the post on its side remote from the twist lock devices whereby with the leg fully retracted the post is capable of stable free-standing.

Comp. Specn. 11 Pages. Drg. 4 Sheets.

## CLASS 64A.

147212

Int. Cl.-H01h 85/00.

## IMPROVED ELECTRICAL FUSE.

*Applicant & Inventor*: KEMAL KADYROVICH NAMITOKOV, PROSPEKT 50-LETIA VLKSM, 44, KV. 18, KHARKOV, USSR. (2) ANDERI ABDULLOVICH KHARIKOV, ULITSA TANKOPIA, 8-B, KV. 41, KHARKOV, USSR. (3) IVAN VASILIEVICH MATSA, PAREULOK, I. KARKACHA 27, KV. 15, KHARKOV, USSR. (4) OLEG MAXIMOVICH TOCHILIN, ULITSA CHERNYSHEVSKOGO, 1, KV. 17, KHARKOV, USSR AND ALEXANDER NIKOLAEVICH BULGAKOV, PROSPEKT MOSKOVSKY, 96, KV. 78, KHARKOV, USSR.

Application No. 765/Cal/77 filed May 21, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims

An electrical fuse comprising a casing filled with quartz sand, and provided with terminals connected by a fuse link of aluminium or an aluminium alloy, wherein the ratio of the mass of the quartz sand filling within the casing to the mass of the aluminium material of the fuse link placed in the quartz sand is not less than 40 : 1.

Comp. Specn. 17 Pages. Drgs. 9 Sheets.

## CLASS 40F &amp; 144A &amp; 155F, &amp; F1.

147213

Int. Cl.-B29c 3/00.

## A SHAPED ARTICLE AT LEAST A PORTION OF WHICH IS A CROSS-LINKED POLYMERIC COMPOSITION AND A PROCESS FOR PREPARING.

*Applicant*: RAYCHEM CORPORATION, OF 300 CONSTITUTION DRIVE, MENLO PARK, CALIFORNIA 94025, UNITED STATES OF AMERICA.

*Inventors*: ALAN JEFFREY GOTCHER AND PAUL BLAKE GERMERAAD.

Application No. 1500/Cal/77 filed October 11, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 56 Claims. No drawings

A shaped article at least a portion of which is a cross-linked polymeric composition such as herein described of which the polymeric component is a fluorocarbon polymer (as hereinbefore defined) having a melting point prior to cross-linking of at least 200°C., the said portion of the article having an M100 value of at least 300 psi and a tensile strength of at least 3,000 psi.

Comp. Specn. 30 Pages. Drgs. Nill.

## CLASS 128A.

147214

Int. Cl.-A61l 15/00. A61f 13/00, 13/20.

## A CATAFEMIAL DEVICE.

*Applicant*: PERSONNEL PRODUCTS COMPANY, AT MILLTOWN, NEW JERSEY, U.S.A.

*Inventors*: PRONOY CHATTERJEE AND GRAHAM MORBEY.

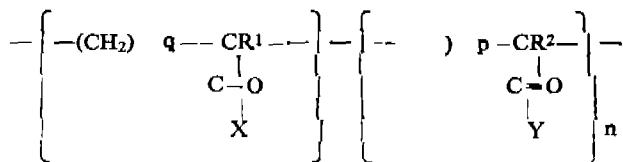
Application No. 1766/Cal/77 filed 24th Dec. 1977.

Division of Application No. 2207/Cal/75 filed November 19, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A catamenial device comprising an absorbent body of cellulose fibres and cellulose particles having grafted thereon hydrophilic chains of the general formula :



wherein  $R^1$  and  $R^2$  are selected from the group consisting of hydrogen and alkyl having 1 to 4 carbon atoms,  $X$  and  $Y$  are selected from the group consisting of  $-\text{OH}$ ,  $-\text{O}(\text{alkali metal})$ ,  $-\text{O}(\text{alkyl})$  having 1 to 4 carbon atoms,  $-\text{OHNH}_2$  and  $-\text{NH}_2$ , wherein  $m$  is an integer having a value of 0 to 5000,  $n$  is an integer having a value of 0 to 5000, the sum of all  $m$  and  $n$  groups is at least 500,  $p$  is an integer having a value of zero to 1, and  $q$  is an integer having a value of 1 to 4; the individual particles of said grafted cellulose having an arithmetic average size of 50 to 1000 microns.

Comp. Specn. 28 Pages. Drgs. 3 Sheets.

## CLASS 32C. &amp; 83A.

147215

Int. Cl.-C12d 13/06, A23j 1/18.

## AN IMPROVED PROCESS AND APPARATUS FOR THE MICROBIOLOGICAL PRODUCTION OF SINGLE-CELL PROTEIN USING AN ETHANOL BASE.

*Applicant & Inventor*: JOSEF HUBERT SCHICK, OF MOZARTSTRASSE 10, KOLN-PESCH, FEDERAL REPUBLIC OF GERMANY.

Application No. 21/Cal/78 filed January 5, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 19 Claims

An improved process for the microbiological production of single-cell protein on an ethanol base in which yeasts using ethanol or yeasts fed or nourished with ethanol are cultivated at a temperature of 20 to 40°C under aerobic conditions in a fermentation column in the presence of ethanol and oxygen in a dilute nutrient medium having a pH value of 2.5 to 4, which contains nutrient salts, acid phosphate and a nitrogen-containing substance which ferment to form a biomass wherein the improvement comprises the steps of :

(a) constantly circulating the nutrient medium into and through and out of the fermentation column.

(b) causing the entry of the circulating nutrient medium into the column to enter the column tangentially,

(c) introducing oxygen into the column,

(d) dispersing the said oxygen into bubbles having size from 1 and 7 mu,

(e) mixing the dispersed oxygen with the tangentially introduced nutrient medium,

(f) discharging or obtaining the resulting bio-mass and drying same to below 40% to form the protein product, if desired, optionally, then

(a) causing the bio-mass to pass through the fermentation column without the formation of a gas bubble and

(b) extracting gas content from the product of the fermentation column outside the said fermentation column.

Comp. Specn. 22 Pages. Drg. 1 Sheet.

CLASS 32F, & Fab & 55D<sub>2</sub>.

147216.

Int. Cl.-A01n 9/20, C07d 49/36.

PROCESS FOR THE PREPARATION OF IMIDAZOLE DERIVATIVES AND METAL SALTS THEREOF.

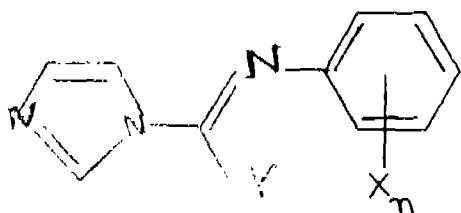
*Applicant*: NIPPON SODA COMPANY, LIMITED, OF NO. 2-1, OHTEMACHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN.*Inventors*: KATSUYATA IKURA, QIYOSHI KATSUURA, MASAAKI KATAOKA, AKIRA NAKADA AND MASAMI MIZUNO.

Application No. 338/Cal/78 filed March 29, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

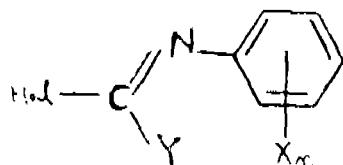
A process for preparing an imidazole compound of the general formula III.



wherein X is a same or different substituent selected from the group consisting of halogen, lower alkyl of 1 or 2, carbons, nitro and lower haloalkyl;

n is one or two; and

Y is selected from the group consisting of alkoxy (1-8 carbons) lower alkyl (1 to 4 carbons) alkenyloxy-alkyl, (3 to 8 carbons), lower phenoxyalkyl (1 to 4 carbons), substituted lower phenoxyalkyl (1 to 4 carbons) and benzyl; with the proviso that X is trifluoromethyl at the 2-position and chlorine at the 4-position in the case of Y being benzyl; and/or a metal complex thereof, which comprises reacting a compound of formula XI.



where X, Y and n are as defined before and 'Hal' is halogen with an imidazole, the metal salt thereof being prepared by reacting the so obtained compound of formula III with an organic or inorganic metal salt of formula AB where A is bivalent or trivalent metal atom and B is anion component of the salt and wherein the reaction between the compound of formula XI and the imidazole is carried out in an inert solvent in the presence of an alkaline condensing agent.

Comp. Specn. 28 Pages. Drg. 1 Sheet.

CLASS 128F.

147217

Int. Cl.-A61m 15/00.

## ORAL INHALATOR POWDER DISPENSER.

*Applicant*: AMERICAN CYNAMID COMPANY, OF THE TOWNSHIP OF WAYNE, STATE OF NEW JERSEY, UNITED STATES OF AMERICA.*Inventor*: LLOYD FRANK HANSEN.

Application No. 394/Cal/78 filed April 10, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

An oral inhalator powder dispenser comprising: (A) a circular housing containing a converging funnel-shaped mouthpiece; support means for a medicament capsule; an opening adjacent said support means; an impeller and a shaft connected to said impeller at one end and protruding through said housing into a (B) power source.

Comp. Specn. 13 Pages. Drg. 1 Sheet.

CLASS 55D<sub>2</sub>.

147218.

Int. Cl.-A01n 9/02.

PROCESS FOR THE PREPARATION OF AN INSECTICIDAL COMPOSITION.

*Applicant*: STAUFFER CHEMICAL COMPANY, OF WESTPORT, CONNECTICUT 06880, UNITED STATES OF AMERICA.*Inventors*: LELAND STANTON PITT, GEORGE BLACKMORE LARGE AND ALAN ANGUS MACDONALD.

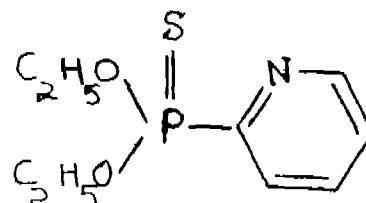
Application No. 1359/Cal/78 filed December 21, 1978.

Division of Application No. 1338/Cal/77 filed August 29, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

A process for preparing an insecticidal composition comprising admixing N-(mercaptomethyl) phthalimide S-(O,O-dimethyl phosphorodithioate) with a compound having the structural formula,



in a weight ratio of between 1 : 0.5 and 1 : 10, optionally in the presence of a solvent.

Comp. Specn. 11 Pages. Drg. 1 Sheet.

## PATENTS SEALED

143669 745280 145552 145645 145647 145936 145995 146233

146249 146254 146258 146273 146278 146288 146291 146307

146309 146310 146312 146316 146319 146322 146354 146357

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

## (1)

The claim made by The Director General, Cement Research Institute of India under Section 20(1) of the Patents Act, 1970 to proceed the application for patent No. 143879 in their name has been allowed.

## (2)

The claim made by Gould Inc. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 144134 has been allowed.

## LIST NO. 1

## COMMERCIAL WORKING OF PATENTED INVENTIONS.

The following patents in the field of *General & Mechanical Engineering* Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146 (2) of the Patents Act, 1970, in respect of Calender year 1978 generally on account of want of requests for licences to work the patented invention. Persons who are interested to commercially work the said patents may contact the patentee for the grant of a licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name & Address of Patentee	Brief title of the invention
1	2	3	4	5
1	92914	23-3-1974	Caterpillar Tractor Co., 100 N.E. Adams Street, Peoria, Illinois 61629, U.S.A.	Differential for wheel vehicles
2	95393	28-8-1964	West Point Manufacturing Co., West Point, State of Georgia, U.S.A.	Automatically Threading shuttle.
3	96649	23-11-1964	Caterpillar Tractor Co., 100 N.E. Adams Street, Peoria, Illinois 61629, U.S.A.	Tractor trailer combinations & apparatus for controlling the bounce in such combinations.
4	99014	17-4-1964	Dr. Karl Hahn KG, Helmrich-Heinl Allee 53, Dusseldorf, West Germany	Apparatus for shaping one end of cylindrically shaped tampon,
5	102034	13-10-1965	Caterpillar Tractor Co., 100 N.E. Adams Street, Peoria, Illinois 61629, U.S.A.	Diagonal bracing and bulldozer blade mounting.
6	102057	14-10-1965	Caterpillar Tractor Co., 100 N.E. Adams Street, Peoria, Illinois 61629, U.S.A.	High pressure hydraulic base coupling assembly.
7	104622	29-3-1966	Monsanto Company., 800 North Lindenbergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Shaped articles and their manufacture.
8	105195	10-5-1966	Caterpillar Tractor Co. 100 N.E. Adams Street, Peoria, Illinois 61629, U.S.A.	A system for controlling vibrations between articulately connected vehicle components.
9	107832	4-11-1966	Do.	Hose & method of manufacture.
10	108389	12-12-1966	Do.	Stabilizing means for earth moving scrapers.
11	108585	26-12-1966	Do.	Resilient shock absorbing device.
12	109064	27-1-1967	Do.	Ejector mechanism for loader buckets.
13	109540	1-3-1967	Do.	A tractor scraper combination with resilient means to provide temporary support.
14	109844	21-3-1967	Establishment Salgad, Vaduz, Liechtenstein.	Mortar Shell.
15	109971	30-3-1966	Norris Filters Limited, Burrel Road Haywards heath, Sussex, England.	Filter units for fluids and filterpack.
16	110714	18-5-1976	Caterpillar Tractor Co., 100 N.E. Adams Street, Peoria, Illinois 61629 U.S.A.	Hydraulic follow up vehicle steering system.
17	110817	25-5-1967	Do.	A Tractor scraper combination.
18	111022	8-6-1976	Do.	Hydraulic actuation means for a pair of steering clutches in the drive train of a tractor.
19	111202	22-6-1967	Do.	Reinforcement for pneumatic tires.
20	112282	8-9-1967	Do.	Hydraulic control system for a multispeed transmission.
21	112283	8-9-1967	Do.	Hydraulic Governor.
22	112893	24-10-1967	Do.	Push-Pull coupling for tractor scraper unit.
23	114359	5-2-1968	Smith International Inc., 13215, East Perm Street, Whittier, California, U.S.A.	Bearing seal.
24	115111	22-3-1968	Establishment Salgad., Vaduz, Liechtenstein	Barrel end or assembly on barrels for smooth bore projectiles.
25	115112	22-3-1968	Do.	Do.
26	115695	1-5-1968	Kamyr Aktiebolag., Fack, S-65101, Karlstad-1, Sweden.	Sieve device in an upright cylindrical container for continuous flow cellulose material.
27	115118	28-5-1968	Caterpillar Tractor Co., 100 N.E. Adams Street, Peoria, Illinois 61629, U.S.A.	Two piece master track link.
28	113286	22-11-1967	Monsanto Company., 800 North Lindenbergh Boulevard, St. Louis, Missouri, 63166, U.S.A.	Process of forming objects from Low viscosity melt.

1	2	3	4	5
29	116468	22-6-1968	Mark hurd Aerial Surveys, Inc. Photo grammatic Engg. and Aerial Surveys., 345, Pennsylvania avenue, South minneapolis, Minnesota, U.S.A.	Doors for access openings and an airc aft incorporating such doors.
30	116639	3-7-1968	Wright Rain Limited., Crowe, Ringwood, Hampshire, England.	Rotary water sprinkler.
31	117542	3-9-1968	Caterpillar Tractor Co., 100 N.E. Adams Street, Peoria, Illinois 61629, U.S.A.	Articulated chain assembly.
32	118808	30-11-1968	Caterpillar Tractor Co., 100 N.E. Adams Street, Peoria, Illinois 61629, U.S.A.	Replaceable rippertip assembly.
33	119213	31-12-1968	Kamyr Aktiebolag., Fack, S-651, Karla-stad-1, Sweden.	A device in a standing cylindrical container adopted for axial feed there through of a suspension of cellulosic fibre material, for withdrawing part liquid of the suspension.
34	120402	18-3-1969	Establishment Salgad. Vaduz, Liechte-nstein.	Loading mechanism for ramming a shell into a barrel of a gun.
35	120826	9-4-1969	Wayne Emil Jensen., P. O. Box. 325, Glenwood, Illinois 60425, U.S.A.	A Traffic signal onversion unit & a Traffic signal including road traffic signal.
36	121239	9-5-1968	Coal Industry (Patents) Ltd. Hobart house, Grosvenor Place, London SW-1.	Method and apparatus for sealing liquids.
37	122579	1-8-1969	Schlumberger Overseas, S.A. 26 Berners Street, London, S.W.-1 England.	Systems & methods for determining the position of a tool in a borehole.
38	123598	16-10-1969	E. I. Du. Pont. De-Nemours & Compy Wilington, Delaware-U.S.A.	Apparatus for separating fluids.
39	124626	29-12-1969	Howson Algraphy Ltd. Muray Road, St. Paul's Cray, 6, Crayton, Kent, England.	Positive active light Sensetive plates.
40	125118	3-2-1970	Pandrol Ltd., 7 Rolls buildings, Fetter lane, London, E.C.4, England.	A Railway rail fastening member and fastening arrangement including the member.
41	125454	24-2-1970	Mitsubishi Electric Corporation, 2-3, 2-Chome Marumouchi, Chiyoda-KU, Tokyo, Japan & Shinva Sangyo Co. Ltd., 2-2, 4-Chome, Hatchabori, Chou-Ku, Tokyo, Japan.	A built power transmission device.
42	125766	16-3-1970	Adams Inc., P.O. Box 0336, Station A Correnville South Carolina, 29604, U.S.A.	Stop motion devices.
43	126267	20-4-1970	Societe Pour La Recherche Et. La De-velopment Technologiques SA. Rue Cesar Soulie S, 1260 Nyon, Switzerland.	Apparatus & method for the production of Continuous moulded plastic strip having thereon upstanding hook like number.
44	126567	8-5-1970	U. S. S. Engineer & Consultants Inc., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Protecting a sheet being electropated with a metal.
45	126743	20-5-1970	U.S.S. Engine Consultants Inc., 525 Williams Pam Place, Pittsburgh, State of Pennsylvania, U.S.A.	Sliding gate closure for bottom pour vessel removable as a unit.
46	126857	28-5-1970	The Battelle Development Corp., 505 Kings Avenue, Columbus, Ohio 43201, U.S.A.	Making high density sintered material objects by ship casting.
47	126877	1-6-1970	Gideon Petrus Schomen Fssel, Sanitas, P.O. Noordburg, Potchefstroom, Trans-vae Province, Republic of South Africa.	Vehicle headlamp adjusting means.
48	126910	2-6-1970	Allied tube & Conduit Corpn., 16100 South Lathrop Avenue, Harvey, Illinois, U.S.A.	Continuously galvanising steel strip.
49	127073	8-5-1969	Coal Industry (Patents) Ltd., Hobart House Grosvenor Place London, England.	Apparatus for heating liquid.
50	127074	15-6-1970	Girling Ltd., Kings Road, Tyseley, Birmingham 11, Wanwickshire, England.	Automatic slack adjuster for vehicle brake.
51	127130	25-6-1969	Do.	Frictional Couplings.
52	127259	25-6-1970	Do.	Automatic adjuster for shoe-drum brake.

1	2	3	4	5
53	127327	30-6-1970	Sulzer Brothers Ltd., Switzerland.	Cooling a gas stream.
54	127378	3-7-1970	C.A.V. Ltd., Well Street, Birmingham 19, England.	Fuel injection nozzles.
55	127505	13-7-1970	Metallurgical Development Co., Trust Building, Frederick St., Nasan, Bahamas & Austral House, Basinghall Avenue, E.C.Z. London, England.	Preparation of feed material for blast furnace.
56	127863	4-8-1970	Westinghouse Air Brake Co., Pittsburgh, Pennsylvania, U.S.A.	Braking & propulsion system for Railway vehicle.
57	127877	4-8-1970	A/S Dansk Leca, Formerly known as Dansk Lecabeton of Paul Bergesvej, 17 Gostripm Denmark.	Rotary kiln for producing a blotted clay product.
58	127883	4-8-1970	Allied Tube & Conduit Corp., 16100 South Lathrop Avenue, Harvey, Illinois, U.S.A.	Machine for continuously forming and galvanising steel tubing.
59	128004	12-8-1970	Henri Vidal, 17 Rue Aruvengaud, 92 Saint Claud, France.	Cladding for reinforced earth structures.
60	128107	20-8-1970	Girling Ltd., England.	Brake adjuster.
61	128124	21-8-1970	Canron Ltd-Canron Ltd., 1121 Place Ville Marine, Montreal, Quebec, Canada.	Chord Linear.
62	128187	26-8-1970	G.K.N. Birfield Transmissions Ltd., Chester Road, Erdington, Birmingham 24, England.	Constant velocity universal Joints.
63	128198	27-8-1970	Girling Ltd., England.	Servomotors for vehicle braking.
64	128226	28-8-1970	Angelo John Crisafulli, P.O. Box No. 1051, Gleudive, Montaria, U.S.A.	Centrifugal pump.
65	128231	29-8-1970	Girling Ltd., England.	Disc brakers.
66	128326	8-9-1970	Do.	Hydraulic braking system of vehicles.
67	128448	16-9-1970	Linden Alimark AB, 93193 Skelleftea-3, Sweden.	Mining in barren rocks or bodies.
68	128481	18-9-1970	Libbey Owans Ford Co., 811 Madison Avenue, Toledo, Ohio, U.S.A.	Bending glass sheets.
69	128494	19-9-1970	C.A.V. Ltd., Well Street, Birmingham 19, England.	Liquid fuel injection pumping apparatus.
70	128548	22-9-1970	Monsanto Co., 800 North Lindbergh, Blvd, St., Louis, Missouri. 63166, U.S.A.	Extrusion of essentially invised jets.
71	128597	25-9-1970	Caterpillar Tractor Co., 100 N.E. Adams Street, Peoria, Illinois 61629, U.S.A.	Cushioned track for earth working machine.
72	128792	13-10-1970	Schubert & Salzer Machinery Jabrik AG., 8070 Ingolstadt, West Germany.	Apparatus for the automatic return of a thread & to the fibre collecting surface of a fibre bond spinning machine.
73	128927	21-10-1970	Harbans Lal Malhotra & Sons Ltd., 12 New IT Road, Calcutta, India.	Disposable plastic safety razors.
74	128928	21-10-1970	Do.	Magazine for ribbon like sharing blade.
75	128931	21-10-1970	Do.	Safety razor.
76	128976	24-10-1970	Girling Ltd., Kings Road, Tyseley Birmingham 11, England.	Brake shoes.
77	128979	12-11-1969	Do.	Reservoir for master cylinders.
78	129103	3-11-1970	OY Tampella AB, Tampere, Finland.	Device for calculating the angular setting of the aiming attachment for grenade throwers.
79	129114	4-11-1970	UOP Inc., 30 Algonquin Road, Plaines, Illinois, U.S.A.	Des Heat transfer tubing for boiling liquids.
80	129124	6-11-1970	Joseph Lucas (Industries) Ltd., Great Kings Street, Birmingham 19, England.	Device for measuring the frequency of rotation of a vehicle wheel.
81	129126	6-11-1970	Girling Ltd., England.	Vehicle brakers.
82	129137	7-11-1970	Borgs Fabriks Aktibolag, P.O.B. No. 242, S-60 104, Norrkoping, Sweden.	An aircraft barrier net.
83	129138	7-11-1970	Do.	Aircraft arresting system.
84	129164	10-11-1970	Universal Oil Product Co., U.S.A.	Vehicle seats.
85	129211	12-11-1970	OY Tampella AB, Tampere, Finland.	Percussion fuse particularly for Projectiles.
86	129335	21-11-1970	Schlumberger Overseas, S.A., One Kingsway, London W. C. Z., Great Britain.	Apparatus for investigating earth formation.

1	2	3	4	5
87	129369	24-11-1970	Nippon Kokan Kabushiki Kaisba, 1-3, 1-Chome, Otemachi, Chiyoda-ku-Tokyo, Japan.	Apparatus for cooling hot metals and in particular steel materials.
88	129371	24-11-1970	Do.	Reaction apparatus for fluidized bed.
89	129474	5-12-1970	Kabel-Und Metallwerke Gutchoff-Ungshutte AG, Post Fach 260, Vohrenwalder.	Continuous casting mould for the casting of metal like steel.
90	129497	4-12-1970	Nippon Koka K.K., Japan.	Manufacture of tinned plates having little-tendency to smudge.
91	129515	5-12-1970	Girling Ltd., England.	Hydraulic braking system for vehicles.
92	129524	7-12-1970	Schubert & Salzer Maschinenfabrik AG, Post Fach-260, Ingolstadt., West Germany.	Supplying Sliver to fine spinning material.
93	129541	9-12-1970	Union Carbide Corpn., 270 Park Avenue, New York N. Y. 100 17, U.S.A.	Annealing tower.
94	129558	10-12-1970	GKN Birfield transmission Ltd., P.O. Box 405, Chester Road, Erdington, Birmingham 24, England.	Universal Joints.
95	129639	17-12-1970	UOP Inc., 30 Algonquin Road, Des Plaines, Illinois, U.S.A.	Heat transfer tube with porous boiling surface.
96	129648	17-12-1970	Schlumberger Overseas S.A. One Kingsway, London, W.C.Z., England.	Investigating earth formation.
97	129652	18-12-1970	Girling Ltd., England.	Vehicle shoe drum brakes.
98	129653	18-12-1970	Matisq Material Industiel S.A. Archen-Cial 2, 1023 Crissier, Switzerland.	Apparatus for checking and rectification of railway track.
99	129768	29-12-1970	Joseph Lucas (Industries) Ltd., England.	Fault detecting system for road vehicles.
100	129782	30-12-1970	Girling Ltd., England.	Lock actuators.
101	129820	1-1-1971	Harbans Lal Malhotra & Sons Pvt. Ltd., 92, New CIT Road, Calcutta-12, India.	Manufacture of shaving blades.
102	129821	1-1-1971	Do.	Safety shaving apparatus.
103	129849	6-1-1971	Dunlop Co. Ltd., Dunlop House, Ryden Street, St. James, London SW 1, England.	Composite articles and friction elements assembly.
104	129852	6-1-1971	Girling Ltd., England.	Drum type brake.
105	129854	6-1-1971	Hindustan Lever Ltd., Hindustan Lever House, 165-166 Bockbay Reclamation, Bombay-1.	Instant tea powder.
106	129855	6-1-1971	Do.	Extraction and preparation of instant tea powder.
107	129856	6-1-1971	Johnson & Johnson, 501, George Street, New Brunswick, N. Jersey, U.S.A.	Conformable adhesive sheet.
108	129884	8-1-1971	Etablissement Salgad, Vaduz, Liechtenstein.	Storage of transport of projectiles.
109	129920	13-1-1971	Girling Ltd., England.	Disc brakes.
110	130033	22-1-1971	G.D. Societa Per Azioni, Via Pomponia 10, Bologna, Italy.	Automatically varying the operating speed in packing up machines for packet cigarettes.
111	130042	25-1-1971	Girling Ltd., England.	Mechanical couplings for frictional element of brake.
112	130085	28-1-1971	Do.	Mechanical coupling for shoe drum brakes.
113	130100	29-1-1971	Dunlop Holdings, Ltd., Dunlop House, Ryder Street, S. James, London W1, England.	Printers blankets.
114	130102	29-1-1971	USS Engineers & Consultant Inc., Pittsburgh, Pennsylvania, U.S.A.	Automatically supplying oil to a hot strip rolling mill.
115	130135	2-2-1971	Girling Ltd., England.	Disc brakes.
116	130191	5-2-1971	G.D. Societa In Accomandita, Sciplice Dianzo Seragnate, Via. Pomponia 10, Bologna, Italy.	Conveyor device for assembling overlying sets of cigarettes and packing them in packets in cigarette packing machines.
117	130217	9-2-1971	Borgs Fabriks Aktiebolag., Sweden.	Apparatus for operating energy absorbers.
118	130247	12-2-1971	The Goodyear Tire & Rubber Co., 1144, East Market Street, Akron, Ohio, U.S.A.	Errection of infatable shelter.

1	2	3	4	5
119	130361	25-2-1971	Imperial Chemical Industries Ltd., Imperial Chemical House, Millbank, London S.W. 1, England.	Apparatus for cooling executed tubing.
120	130431	2-3-1971	Lewis Woolf Griptight Ltd., 144 Oakfield Road, Birmingham, England.	Infant feeding bottle.
121	130553	16-3-1971	Union Carbide Corp., 270 Park Avenue, N.Y. N.Y. 10017, U.S.A.	Liquid gas contacting tray.
122	130556	16-3-1971	Fisons Ltd., Harvest House, Felinstowe, Suffolk, England.	Dispersing medicament in fine powdered form.
123	130565	16-3-1970	L-G. Hudson, Little Copped Hall, Epping Essex, England.	A runner for drawer support units.
124	130574	16-3-1971	Etablissement Salgad., Vaduz, Liechtenstein.	Unlocking a tensioning member.
125	130592	16-3-1971	Kuorr Bremse G.M.B.H., 8 Munchen 13, Moosacher strasse 80, F.R.G.	A compressed air braking equipment for rail vehicles.
126	130602	17-3-1971	Binks-Bullows Ltd., Pelsall Road, Brownhills Staffordshire WSSYAW England.	A nozzle for use in a spray gun.
127	130624	18-3-1970	C.A.V. Ltd., Well Street, Birmingham 19, England.	Liquid fuel pumping apparatus.
128	130634	19-3-1971	Essex International Inc., 1601 Wall Street Fort Wayne, Indiana, 46804, U.S.A.	Current controlling apparatus.
129	130681	23-3-1971	Westinghouse Electric Corp., Pittsburgh, Pennsylvania, U.S.A.	Centrifugal fan.
130	130721	25-3-1971	G.K.N. Birfield Transmission Ltd., Chester Road, Erdington, Birmingham 24, Warwickshire, England.	Constant velocity universal joint.
131	130743	26-3-1971	Etablissement Salgad, Vaduz, Liechtenstein.	Unlocking a traction unit.
132	130829	13-4-1971	John Heatcoat & Co. Ltd., Tiverton, Devon England.	Apparatus for bulked yarns.
133	130834	3-4-1971	Borgs Fabriks Aktiebolag, P.O.B. 242, S-60, 104, Norkoping, Sweden.	Driving torque and energy absorption regulator.
134	130843	5-4-1971	Combustion Eng. Inc., 1000 Prospect Hill Road, Windsor Connecticut U.S.A.	Omega type expansion joint corners.
135	130859	6-4-1971	Girling Ltd., England.	Servo boosters.
136	130877	7-4-1971	Atlas Copco Aktiebolag., Nacka, Sweden.	A machine for producing tunnels, drifts, raises and the like.
137	130904	8-4-1971	Combustion Engg. Inc., U.S.A.	Toggle section support connected in duct-system between speed conduit sections.
138	130974	4-4-1971	Dunlop Holdings Ltd., England.	Flexible inter connectable hose pipe.
139	131029	19-4-1971	Joseph Lucas (Industries) Ltd., England.	Lamp failure warning system for road vehicles.
140	131036	19-4-1971	Redpath Dorwan Long (contracting) Ltd., Elliot House, Hillside Crescent, Edinburgh, Scotland.	Parallel wire stands.
141	131058	21-4-1971	USS Engineers & Consultants Inc., Pittsburgh, Pennsylvania, U.S.A.	Slidable gate to close bottom pour vessel.
142	131059	21-4-1971	Girling Ltd., England.	Brake adjuster mechanism for drum brakes.
143	131081	22-4-1971	Ruti ' Machinery Works Ltd., CH-8630 Ruti, Zurich, Switzerland.	Weft thread holding arrangement.
144	131103	24-4-1971	Imasco Ltd., 4 Westamound Square, Montreal 216, Quebec, Canada.	Pneumatic separator.
145	131120	26-4-1971	John Harold Barwell 13 Cranmer Road Cambridge, England.	Treading of wheel and tyre.
146	131139	27-4-1971	Dunlop Holdings Ltd., England.	Contact adhesives.
147	131140	27-4-1971	Joseph Lucas (Industries) Ltd. England.	Suppressors for road vehicles.
148	131201	1-5-1971	Reinar Schmidt & Erik Schmidt., both of Skyttegaten, S-7 77101, Ludvika, Sweden.	A thread cutting device slide lathe.

**PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"**

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

No.,	Title of the invention
138032 (18.7.73)	Process for preparation of sesquiterpene ketones.
138036 (13.8.73)	Method of treating ferrous strand by hot dip coating procedure.
138109 (9.11.72)	Process for preparing oil soluble dyestuff mixtures.
138120 (12.2.74)	Process for the production of herbicidal substituted benzimidazoles.

138183 (19.10.72)	Process for continuous production of aluminium.
138200 (26.2.73)	Method for purifying mercury containing gases particularly hydrogen.

**RENEWAL FEES PAID**

95479	95480	96341	96629	96649	96659	96701	96828	97010
97078	97187	103044	103077	103167	107232	107860	108083	
108137	108141	108155	108226	108566	108703	113071	113223	
113262	113536	113565	113774	113781	114282	114455	114779	
117273	118180	118478	118632	118741	118742	118820	118846	
118858	118859	118860	118912	118970	119003	119024	119054	
119056	119063	119120	119193	123683	123855	124090	124110	
124189	124190	124204	124214	124373	124377	124454	124523	
124540	124659	124686	128261	128684	128919	129289	129302	
129325	139375	129376	129489	129495	129511	129586	129587	
129640	129709	129755	129769	130788	132641	133341	133662	
133692	133829	133862	134099	134146	135620	135956	136012	
136027	136246	136581	136901	136945	137503	137180	137827	
138015	138167	138391	138681	139385	139386	139387	139529	
139606	139776	139961	140115	140343	140450	140509	140665	
140803	140854	140890	140949	141420	141488	141517	141699	
141731	141784	141841	141852	141856	141862	142137	142138	
142170	142405	142493	142620	142628	142639	142690	142737	
142982	143088	143110	143170	143181	143207	143345	143380	
143418	143432	143476	143480	143486	143525	143716	143729	
143764	143777	143797	143893	143929	143975	144004	144008	
144018	144031	144032	144038	144039	144042	144044	144051	
144105	144106	144150	144154	144170	144198	144264	144295	
144365	144418	144464	144502	144521	144526	144563	144619	
144631	144634	144639	144673	144689	144716	144747	144760	
144779	144789	144793	144803	144810	144839	144851	144857	
144964	145019	145146	145166	145397	145465	145668	145673	
145751.								

**CESSATION OF PATENTS**

97996	120943	133844	133847	133848	133849	133857	133865
133882	133883	133889	133890	133893	133894	133897	133903
133904	133909	133910	133911	133916	133918	133919	133920
133924	133929	133935	133938	133939	133945	133949	133954
133958	133965	133981	133982	133987	133992	134001	134002
134010	134014	134026	134031	134035	134037	134043	134044
134046	134048	134049	134057	134060	134064	134071	134080
134081	134084	134085	134087	130088	134090	134902	134103
134105	134110	134111	134118	134125	134129	134132	134139
134148	134149	134154	134158	134160*	134162	134163	134165
134168	134173	134174	134176	134178	134181	134188	137857
142766	142867	144215	144378.				

**RESTORATION PROCEEDINGS**

(1)

Notice is hereby given that an application for restoration of Patent No. 221776 dated the 13th June 1969 made by National Research Development Corporation of India on the 18th December 1978 and notified in the Gazette of India, Part III, Section 2 dated the 17th March 1979 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 121777 dated the 13th June 1969 made by National Research Development Corporation of India on the 18th December 1978 and notified in the Gazette of India, Part III, Section 2 dated the 17th March 1979 has been allowed and the said patent restored.

(3)

Notice is hereby given that an application for restoration of Patent No. 134201 dated the 24th January 1973 made by Karnatak Engineering Works on the 16th September 1978 and notified in the Gazette of India, Part III, Section 2 dated the 20th January 1979 has been allowed and the said patent restored.

(4)

Notice is hereby given that an application for restoration of Patent No. 142265 dated the 28th November 1974 made by Capt. Yeshwant Dattatraya Joshi on the 13th November 1978 and notified in the Gazette of India, Part III, Section 2 dated the 17th February 1979 has been allowed and the said patent restored.

(5)

Notice is hereby given that an application for restoration of Patent No. 139885 dated the 5th December 1974 made by Hindtex Engineers Pvt. Ltd. on the 25th July 1978 and notified in the Gazette of India, Part III, Section 2 dated the 23rd September 1978 has been allowed and the said patent restored.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

—NIL—

## COPYRIGHT EXTENDED FOR SECOND PERIOD OF FIVE YEARS

Design No. 142204 & 142205 Class 1.  
Design No. 142011, 142102 Class 3.

## COPYRIGHT EXTENDED FOR THIRD PERIOD OF FIVE YEARS

Design No. 135357, 135913, 135914, 136099, 136148, 136149, 136150, 136152, 136153, 136154, 136155 Class 1.

Design No. 133423, 133517, 133518, 133519, 135958, 135959, 136060, 136062, 136092, 136093, 136097, 136145, 136146, 136156, 136313, 136543, 136572 142102 Class 3.

Design No. 137126 Class 4.

Design No. 135955, 135956, 136061 Class 10.

Design No. 133849 Class 11.

S. VEDARAMAN,

Controller-General of Patents, Designs  
and Trade Marks.